

# ***MODEL 3150/35L***

## ***DATA SHEET***

### **PORTABLE SUSPENDED SOLIDS**

**Optimized for under 1,500 mg/l—Data Logging—Download Data to Spreadsheet**

The Insite Instrumentation Group Model 3150 portable suspended solids analyzer is a unique system that combines advanced electronics with a solid-state, optical sensor. It is a multi-range analyzer designed for the measurement of suspended solids in aqueous solutions. The microprocessor-based electronics of the analyzer provide a high degree of flexibility and ease of use. Data logging and the ability to download the data directly to a computer are standard features.



#### **FEATURES**

- **Infrared Sensor technology**
  - **Data logging**
- **Serial Interface to Computer Spreadsheet**
- **Two Independent Calibration Points**
  - **Large, Backlit Graphical Display**
    - **Waterproof**
  - **Rechargeable Batteries**
    - **Real Time Clock**

#### **Benefits**

- **Eliminates Need for Daily Lab Analysis**
  - **User Friendly**
- **Real Time SS Concentrations**

The sensor operates on the principle of single gap light absorption as the means of determining the concentration of suspended solids. The model 35L sensor was specifically designed for solids concentrations typically found in clarifier effluents (0 to 100 mg/l) and plant effluents (0 to 30 mg/l) of wastewater treatment plants, and rivers or streams (under 1000 mg/l). The sensor utilizes an infrared emitter to minimize color effects and compensates for emitter variations due to temperature by measuring source brightness. Ambient light has no effect on the measurement.

**Insite IG**

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# MODEL 3150 SPECIFICATIONS

Measuring Ranges	0 to 1500 mg/l for Model 35L Sensor
Accuracy	5% of reading or 2 mg/l, whichever is greater (Model 35L)
Sensitivity / Resolution	1 mg/l below 1000 mg/l 10 mg/l between 1,000 and 9,999 mg/l
Response Time	less than 10 seconds
Display unit	PPM, mg/L adjustable
Repeatability	+/- 0.5%
Sensor Drift	Less than 1% per year
Temperature Range	0 to 65 degrees C
Sensor Check	Automatic self diagnostics
Output	RS-232 serial
Memory Backup	Yes
Display	LCD graphic display with UV protection Contrast adjustment via keypad On demand backlighting
Sensor Cable Length	20 feet
Ambient Temperature	minus 40 degrees C to 55 degrees C
Ambient Humidity	0 to 100 percent
Enclosure Rating	NEMA 4X
Wetted Materials	Epoxy and polyurethane
Maximum Pressure	100 psi
Shipping Weight	approximately 4 pounds

## ORDERING INFORMATION

The Model 3150 portable S.S. system includes analyzer, sensor (Model 35L), battery charger, computer download software, and a carry bag.

Delivery  
Terms

Ship within 2 weeks from date of order  
Visa, MasterCard, or Net 30 days, FOB Slidell, LA

### CONTACT ;

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**OR YOUR LOCAL REPRESENTATIVE;**

